

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: Q90669

Yoshifumi TAKENOBU, et al.

Appln. No.: 10/551,755

Group Art Unit: 1621

Confirmation No.: 1688

Examiner: Unknown

Respectfully submitted,

Registration No. 32,197

Mark Boland

Filed: October 3, 2005

For:

REMEDY FOR SPINAL CANAL STENOSIS

SUBMISSION OF ENGLISH TRANSLATION OF INTERNATIONAL PRELIMINARY EXAMINATION REPORT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

As stated in the new application transmittal letter filed October 3, 2005, it is assumed that a copy of the International Preliminary Examination Report (IPER) has been or will be supplied directly by the International Bureau. For the examiner's convenience, however, an English translation of the IPER (Form PCT/IB/338 and Form PCT/ISA/237) is submitted herewith.

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WASHINGTON OFFICE 23373
CUSTOMER NUMBER

Enclosures: English translation of IPER (Form PCT/IB/338 and Form PCT/ISA/237)

Date:

AUG 2 9 2006

PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)

(PCT Rules 44bis.3(c) and 72.2)

То:	-
OHIE, Kunihisa Ohie Patent Office Selva-Ningyocho 6F 14-6, Nihonbashi-Ningyocho 2-chome Chuo-ku, Tokyo 103-0013 JAPON 106. 3. 30	

Date of mailing (day/month/year)
09 March 2006 (09.03.2006)

Applicant's or agent's file reference
ONF-4933PCT

International application No.
PCT/JP2004/004836

Applicant

ONO PHARMACEUTICAL CO., LTD. et al

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V	The International Bureau transmits herewith a copy of the English translation of the international preliminary report on
	patentability (Chapter I).

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

None

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Yoshiko Kuwahara

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PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference ONF-4933PCT	FOR FURTHER ACTION	See item 4 below		
International application No. PCT/JP2004/004836	International filing date (day/month/year) 02 April 2004 (02.04.2004)	Priority date (day/month/year) 03 April 2003 (03.04.2003)		
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237				
Applicant ONO PHARMACEUTICAL CO., LTD.				

	This REPORT consists of a tot	al of 6 sheets, including this co	ver sheet.	
		rence to the written opinion of the properties of the presentation	the International Searching Authority should be read as a reference er I) instead.	
3.	This report contains indications relating to the following items:			
	Box No. I	Basis of the report		
	Box No. II	Priority		
	Box No. III	Non-establishment of opin applicability	ion with regard to novelty, inventive step and industrial	
	Box No. IV	Lack of unity of invention		
	Box No. V		Article 35(2) with regard to novelty, inventive step or industrial explanations supporting such statement	
	Box No. VI	Certain documents cited		
	Box No. VII	Certain defects in the inter	national application	
	Box No. VIII	Certain observations on the	e international application	
4.			gnated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but er Article 23(2), before the expiration of 30 months from the priority	
			Date of issuance of this report 02 March 2006 (02.03.2006)	
	The International Bu	reau of WIPO	Authorized officer .	
34, chemin des Colombettes			Yoshiko Kuwahara	

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Facsimile No. +41 22 740 14 35 Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

Pranslation From the INTERNATIONAL SEARCHING AUTHORITY PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION ONF-4933PCT See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/JP2004/004836 02.04.2004 03.04.2003 International Patent Classification (IPC) or both national classification and IPC Applicant ONO PHARMACEUTICAL CO., LTD. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA/JP Authorized officer Facsimile No. Telephone No.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2004/004836

Box N	o. I Basis of this opinion
	Vith regard to the language, this opinion has been exablished on the basis of the international application in the language in which it wa led, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language
	, which is the language of a translation furnished for the purposes of international search (under
	Rule 12.3 and 23.1(b)).
	Vith regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed evention, this opinion has been established on the basis of:
	a. type of material
	a sequence listing
	table(s) related to the sequence listing
	o. format of material
	in written format
11. 1	in computer readable form
	time of filing/furnishing
	contained in the international application as filed.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. <i>I</i>	dditional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/004836

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:
the entire international application claims Nos. 14
because: the said international application, or the said claims Nos. 14
relate to the following subject matter which does not require an international preliminary examination (specify):
The subject matter described in claim 14 corresponds to a method for treatment of the human body by therapy (PCT Rule 67.1 (iv)).
the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):
the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed.
no international search report has been established for said claims Nos. 14
the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:
the written form has not been furnished
does not comply with the standard the computer readable form has not been furnished does not comply with the standard
the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.
See Supplemental Box for further details.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/004836

Box			the 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; porting such statement	
1.	Statement		•	
	Novelty (N)	Claims	1-13, 15	YES
		Claims		NO
	Inventive step (IS)	Claims	1-13, 15	YES
		Claims		ИО
	Industrial applicability (IA)	Claims	1-13, 15	YES.
		Claims	· ·	МО

2. Citations and explanations:

The following documents were cited in the ISR:

Document 1: Toshiaki Minami et al, Characterization of EP-receptor subtypes involved in allodynia and hyperalgesia induced by intrathecal administration of prostaglandin E₂ to mice, Br. J. Pharmacol, 1994, Vol. 112, p.735-740

Document 2: EP, 860430, B1 (Ono Pharmaceutical Co., Ltd.), June 12, 2002 (12.06.02), full text Document 3: WO, 98-34916, A (Ono Pharmaceutical Co., Ltd.), August 13, 1998 (13.08.98), full text

Document 1 describes the idea that the PGE₂ receptor subtypes EP2 and EP3 exist in the spinal cord, and the idea that PGE₂ triggers hyperalgesia in the spinal cord via those receptors.

Document 2 describes the compound shown with the general formula (I) in the present international application.

Document 3 describes the compound shown with the general formula (II) in the present international application.

None of documents 1-3 describes or implies that the combination of a compound having an EP2 agonism and a compound having an EP2 agonism is applied for the purpose of preventing or treating spinal canal stenosis.

Therefore, the subject matters of claims 1-13, 15 of the present international application appear to be novel and to involve an inventive step in view of documents 1-3.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2004/004836

Box No. VIII

Certain observations on the international application

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The following observations on the claims of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claims 1-3, 7-13, 15 relate to spinal canal stenosis cures having compounds defined by the required Claims 1-3, 7-13, 15 relate to spinal canal stenosis cures having compounds defined by the required property "EP2 agonism" or "EP3 agonism" as the active ingredient. And claims 1-3, 7-13, 15 include all compounds having such properties, but only a very small portion of the claimed compounds are supported by the description in the sense of PCT Article 6, and disclosed in the sense of PCT Article 5.

And for "a compound having EP2 agonism" or "a compound having EP3 agonism", no scope of compounds having such properties can be specified even when considering the common general technical knowledge at the time of the application. Therefore, claims 1-3, 7-13, 15 do not fulfill the requirement of clarity according to PCT Article 6.